

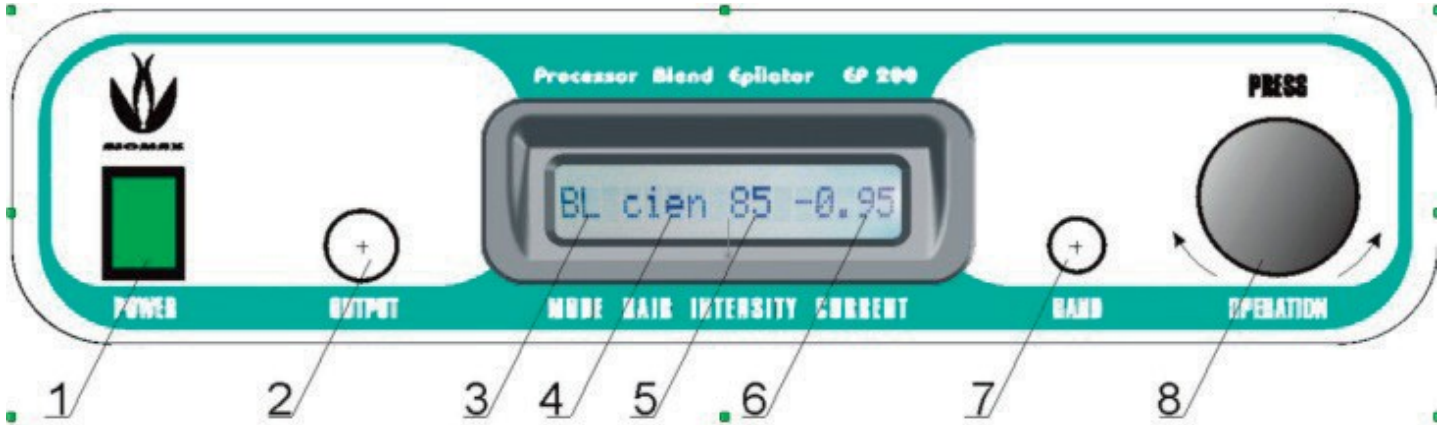
EPILATOR EP 200

USER MANUAL

The BLEND epilator is a device intended for removing unnecessary hair and vascular closure using high frequency and direct current.



APPARATUS FRONT PLATE VIEW



1. On/off switch
2. Needle handle connection socket
3. MODE - type of operation
 - BL - Blend
 - EL - Electrolysis
 - TE - Thermolysis
4. HAIR - blood vessel size or hair thickness
5. INTENSITY - high frequency current power rate
6. CURRENT - galvanic current rate
7. BAND - band plug socket
8. OPERATION / PRESS- settings knob
 - quick press - settings acceptance; long press - treatment exit.O/P abbreviation in the description

TECHNICAL DATA:

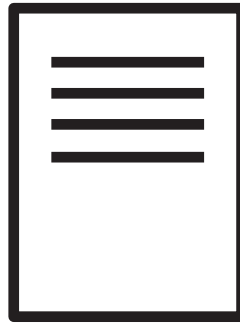
- Power supply 230 V; 50 Hz
- Input power 35 W
- Galvanic current max. 2mA
- High frequency current 13.5MHz
- Dimensions 220 x 150 x 65 mm
- Weight 2.2 kg

APPARATUS EQUIPMENT:

power supply cable



user manual



needle and electrodes



cable connecting the apparatus with the handle



foot switch



passive electrode - band



3 UBI-PROBE needles (selected randomly)



PREPARATION FOR OPERATION

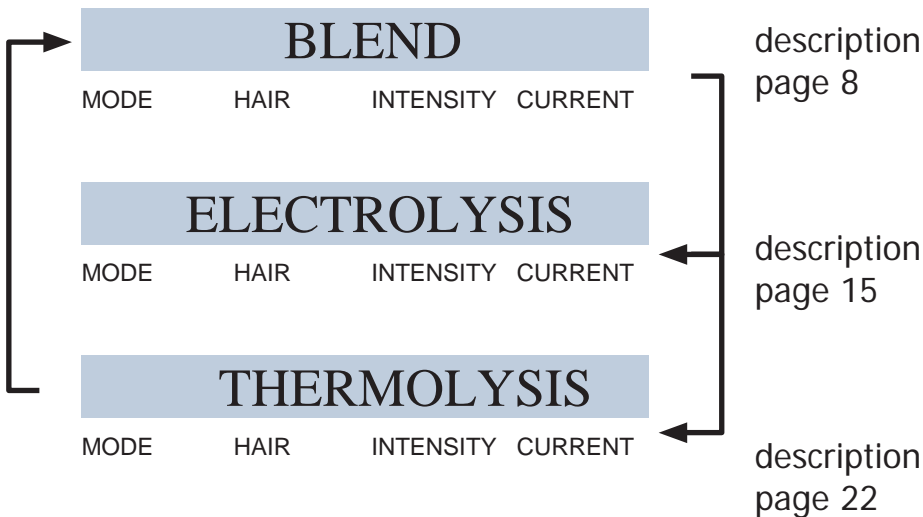
Insert the plug into the mains socket with grounding. Turn the power on POWER ON/OFF (1).

Start-up screen after apparatus activation.

BIOMAK
MODE HAIR INTENSITY CURRENT

EPILATOR EP - 20 0
MODE HAIR INTENSITY CURRENT

The following treatment types will be displayed:



Select the given program by turning the O/P knob.

Accept by quickly pressing the O/P knob or waiting for 2 seconds.

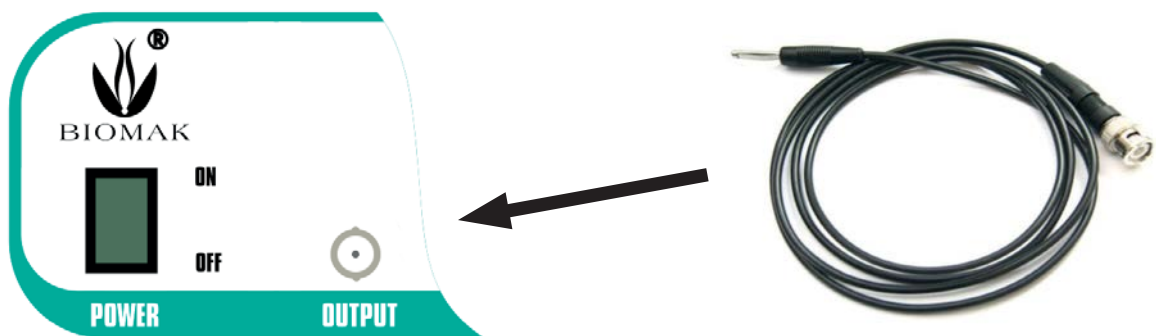
Return to program selection:
- press and hold the O/P knob.

After repeated apparatus activation, the last selected treatment is set. If you want to return to the treatment selection list, press and hold the O/P knob.

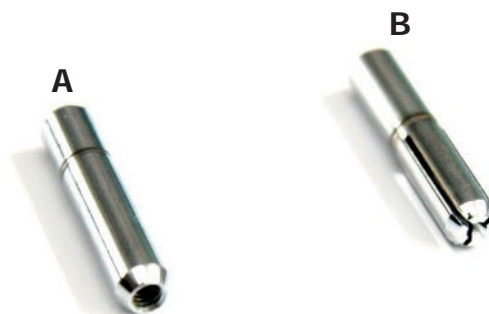
1. Insert the plug into the 230V, 50 Hz mains socket with grounding.
2. Insert the foot switch plug into the socket in the rear apparatus wall.
3. Connect the cable's banana connector to the handle.



4. Connect the cable plug into the apparatus' OUTPUT socket.



5. Use the correct needle fixing end in the handle.
 - A) UNI-PROBE needle fixing
 - B) Ballete needle fixing



5. Changing the needle handle end.

Loosen the needle fixing handle by loosening its end in the counter clockwise direction.



6. Tighten the handle.



7. Screw the needle pin into the opening while holding the Uni-Probe needle guard.

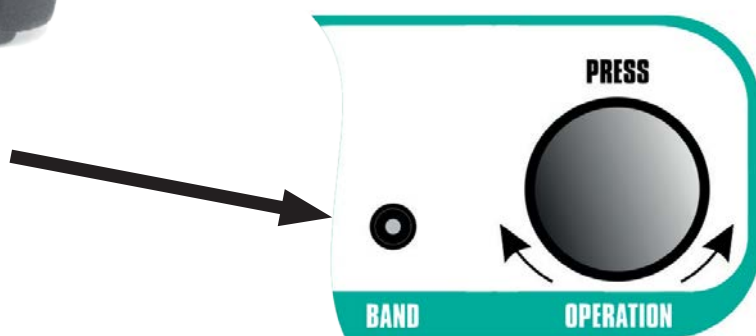


8. Insert the handle with the needle into the clamp to remove the guard. Press the side button firmly and pull the handle upwards.

The needle guard will remain in the clamp. After finishing the treatment, insert the needle into the guard by using the clamp.

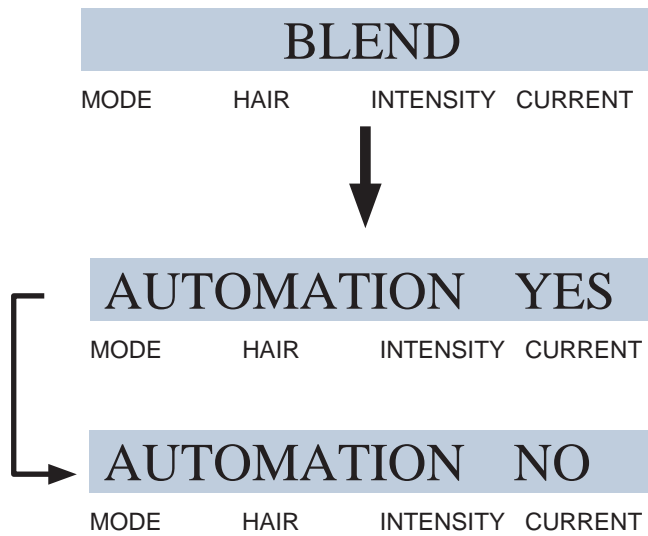


9. Insert the band plug into the BAND socket. Insert a moist swab or gauze under the band. Put the band onto the client's hand.



APPARATUS SETTINGS DURING THE BLEND TREATMENT

1. After selecting the BLEND the screen will display the following inscription:



acceptance -
press (O/P)



selection -
rotate

acceptance -
press (O/P)



2. The apparatus includes a function (Automation) allowing conducting treatment without using the foot switch and setting the time after which the current will flow automatically after the needle is inserted into the hair follicle.



3. Confirming the function will display the delay time, which can be changed from 0.5s to 2.0s. Confirm the selection by quickly pressing (O/P).



It is possible to adjust the delay time by rotating the (O/P) knob.

Accept by quickly pressing the (O/P) knob.



4. **MODE** is the selected treatment BL- BLEND

BL norm 85 - 0.95
 MODE HAIR INTENSITY CURRENT

5. **HAIR** is the hair thickness size.

BL norm 85 - 0.95
 MODE HAIR INTENSITY CURRENT

silk
 thin
 norm
 med
 thick

silky thin
 normal
 medium
 thick

selection -
 rotate (O/P)

acceptance -
 press (O/P)



6. **INTENSITY** - displayed in percentage of 13.5Mhz high frequency current power. It is possible to remove the hair by using high current power (80-100% power) - the apparatus will automatically set the short time. If we select lower power, the apparatus will set a longer operation time.

BL norm 85 - 0.95
 MODE HAIR INTENSITY CURRENT

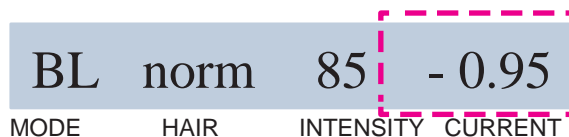
value adjustment -
 rotate (O/P)

acceptance -
 press (O/P)



BLEND - high frequency current flow time			
hair thickness operation time	INTENSITY - percentage		
	30%	65%	100%
silky	0.5 s	0.2 s	0.05 s
thin	1.0 s	0.5 s	0.1 s
normal	1.6 s	0.7 s	0.2 s
medium	2.1 s	1.0 s	0.25 s
thick	2.6 s	1.3 s	0.3 s

7. **CURRENT** - galvanic current rate. Scale from 0.00 to 2.00mA. As in the case of power settings (INTENSITY), if we select high galvanic current, the apparatus will automatically set the operation time. High current value - short time. Low current value - long time. See the galvanic current table.



value adjustment - rotate (O/P)

acceptance - press (O/P)



BLEND - galvanic current flow time				
hair thickness operation	galvanic			
	0.5mA	1.0mA	1.5mA	2.0mA
silky	3.4 s	1.6 s	0.9 s	0.7 s
thin	5.5 s	2.9 s	2.0 s	1.6 s
normal	7.5 s	4.4 s	3.0 s	2.6 s
medium	9.2 s	5.8 s	3.9 s	3.6 s
thick	11.0 s	7.2 s	5.1 s	4.6 s

8. STARTING THE TREATMENT

Take off metallic elements, e.g. jewellery. Clean and disinfect the treated area. Select the correct needle for the treatment. Ballet needle, more convenient for closing blood vessels due to its sharp tip. Uniprobe needle, more suitable for removing hair to its blunt tip.

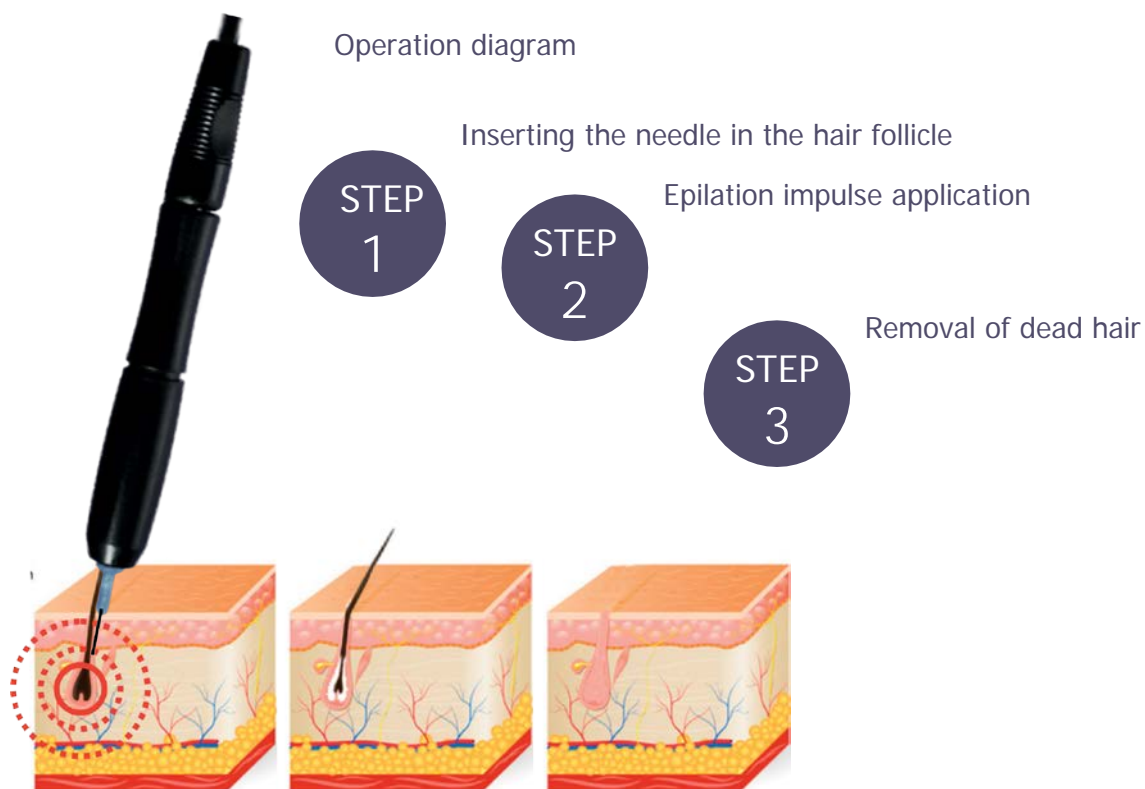
Select the correct needle based on the size of blood vessel / hair thickness. The larger the blood vessel / hair, the thicker needle can be used.

To properly recognise the settings and prevent unpleasant sensation of the client, start with medium values, e.g.:

BL	norm	85	- 0.95
MODE	HAIR	INTENSITY	CURRENT

9. Inserting the needle into the hair follicle.

Insert the needle into the hair follicle at the hair outgrow angle, on the hair underside at best. If the needle is correctly inserted into the follicle, it does not cause pain, stinging or other unpleasant sensations. It must be inserted until slight resistance is felt, which will mean that we reached the hair root, then we apply the impulse / current. If the needle insertion causes pain or stinging, it means that we insert the needle next to the hair follicle.



10A. Impulse application with automation enabled.

AUTOMATION YES

MODE HAIR INTENSITY CURRENT

To start the treatment-impulse, it is sufficient to insert the needle into the hair follicle. The impulse will be applied after the set delay time. If we set the delay time, e.g. to 1.0s, the impulse will be applied 1 second after the needle is inserted into the hair follicle. The expiry of the applied impulse is communicated after a short sound signal. No signal means that no impulse was applied.

This can be caused, e.g. by an unfastened passive electrode (band) or lack of contact between the handle and the apparatus. Also check whether the sound is enabled (see page 28)

Delay 1.0 s

MODE HAIR INTENSITY CURRENT

The completion of the hair removal is signalled with a short sound signal (provided that the sound signal is enabled - see page 28), too early needle extraction or loss of band contact is signalled with a long sound signal.

In time, it is possible to set a shorter automation delay.

After commencing operation, the screen will display the selected parameters, e.g.

BL norm 50 - 0.95

MODE HAIR INTENSITY CURRENT

During the [BLEND] treatment, it is possible to change the current power rate. Prior to changing parameters, it is necessary to disconnect the patient circuit – extract the needle from the hair follicle.

The number of operations can be displayed by pressing the foot switch. Treatment duration of 2:34 seconds on the left and 20 impulses on the right.

0 : 02 : 34 020

MODE HAIR INTENSITY CURRENT

To finish the treatment, press the O/P knob for a long time.

The screen will display the following:

TREATMENT FINISHED
MODE HAIR INTENSITY CURRENT



Setting the treatment type - long press of the O/P knob.

10B. Impulse application with automation disabled.

AUTOMATION NO
MODE HAIR INTENSITY CURRENT

To start the treatment-impulse, press the foot switch. The completion of the hair removal is signalled with a short sound signal (provided that the sound signal is enabled - see page 28), too early needle extraction or loss of band contact is signalled with a long sound signal.

After hearing a short sound, gently extract the needle from the hair follicle. Repeat the operation with the next hair follicle.

No signal means that no impulse was applied.

This can be caused, e.g. by an unfastened passive electrode (band) or lack of contact between the handle and the apparatus. The screen will display the following inscription:

check cables
MODE HAIR INTENSITY CURRENT

After commencing operation, the screen will display the selected parameters, e.g.

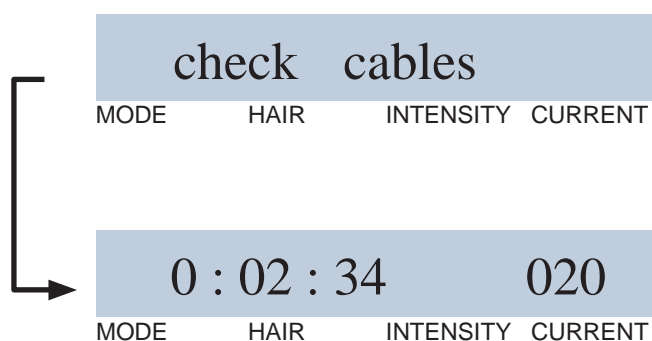
BL norm 50 - 0.95
MODE HAIR INTENSITY CURRENT

During the [BLEND] treatment, it is possible to change the current power rate. Prior to changing parameters, it is necessary to disconnect the patient circuit – extract the needle from the hair follicle.

The number of operations can be displayed by pressing the foot switch. Hold the foot switch for a long time. The screen will display the following inscription:

check cables, and then the counter screen will be displayed. Treatment duration of 2:34 seconds on the left and 20 impulses on the right.

Press and hold the foot switch.



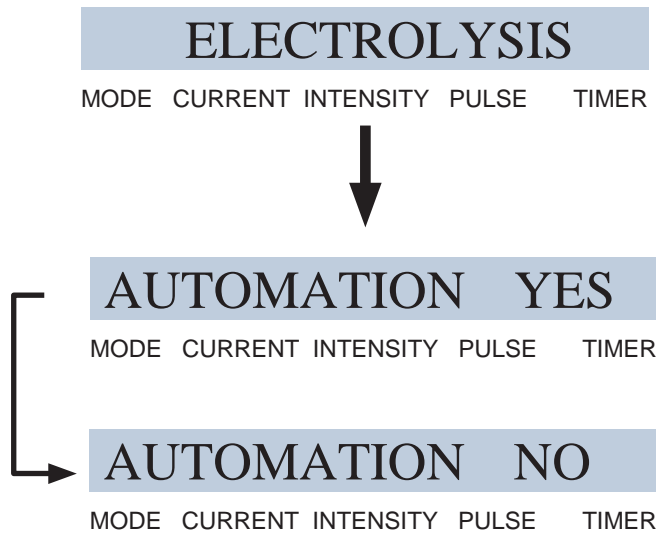
To finish the treatment, press the O/P knob for a long time. The screen will display the following:



Setting the treatment type - long press of the O/P knob.

APPARATUS SETTINGS DURING THE ELECTROLYSIS TREATMENT

- After selecting the ELECTROLYSIS treatment, the screen will display the following inscription:



acceptance -
press (O/P)



selection
rotate

acceptance -
press (O/P)



- The apparatus includes a function (Automation) allowing conducting treatment without using the foot switch and setting the time after which the current will flow automatically after the needle is inserted into the hair follicle.



- Confirming the function will display the delay time, which can be changed from 0.5s to 2.0s. Confirm the selection by quickly pressing (O/P).



It is possible to adjust the delay time by rotating the (O/P) knob.

Accept by quickly pressing the (O/P) knob.



4. **MODE** is the selected treatment EL- ELECTROLYSIS

EL	thin	- 0.95
MODE	HAIR	INTENSITY CURRENT

5. **HAIR** is the hair thickness size.

EL	thin	- 0.95
MODE	HAIR	INTENSITY CURRENT

silk
thin
norm
med
thick

silky
thin
normal
medium
thick

selection -
rotate (O/P)

acceptance -
press (O/P)



6. **CURRENT** - galvanic current rate. Scale from 0.00 to 2.00mA.
As in the case of power settings (INTENSITY), if we select high galvanic current, the apparatus will automatically set the operation time. High current value - short time. Low current value - long time. See the galvanic current table.

EL	thin	- 0.95
MODE	HAIR	INTENSITY CURRENT

value adjustment -
rotate (O/P)

acceptance -
press (O/P)



ELECTROLYSIS - galvanic current flow time				
hair thickness operation	galvanic			
	0.5mA	1.0mA	1.5mA	2.0mA
silky	3.6 s	1.6 s	5.4 s	0.7 s
thin	7.1 s	3.4 s	2.1 s	1.5 s
normal	10.7 s	5.3 s	3.4 s	2.4 s
medium	15.0 s	7.2 s	4.7 s	3.4 s
thick	17.0 s	9.6 s	6.1 s	4.4 s

7. STARTING THE TREATMENT

Take off metallic elements, e.g. jewellery. Clean and disinfect the treated area. Select the correct needle for the treatment.

Ballet needle, more convenient for closing blood vessels due to its sharp tip.
Uniprobe needle, more suitable for removing hair to its blunt tip.

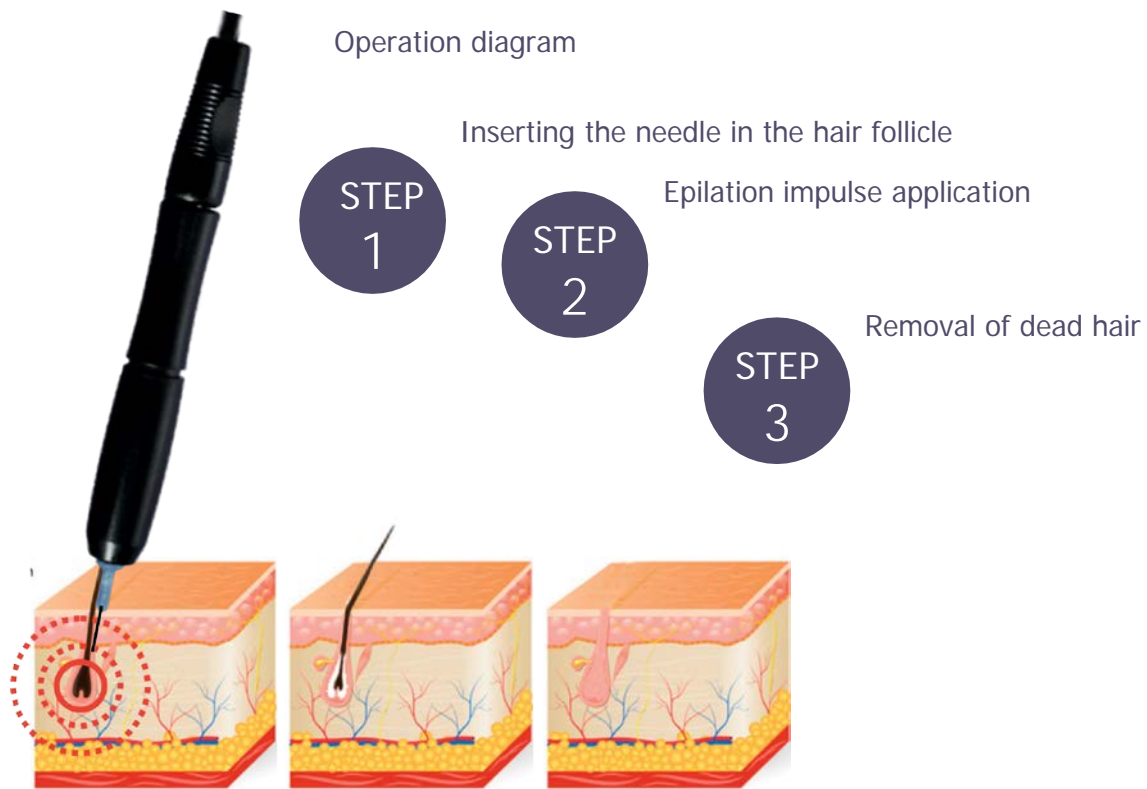
Select the correct needle based on the size of blood vessel / hair thickness. The larger the blood vessel / hair, the thicker needle can be used.

To properly recognise the settings and prevent unpleasant sensation of the client, start with medium values, e.g.:

EL thin - 0.95			
MODE	HAIR	INTENSITY	CURRENT

8. Inserting the needle into the hair follicle.

Insert the needle into the hair follicle at the hair outgrow angle, on the hair underside at best. If the needle is correctly inserted into the follicle, it does not cause pain, stinging or other unpleasant sensations. It must be inserted until slight resistance is felt, which will mean that we reached the hair root, then we apply the impulse. If the needle insertion causes pain or stinging, it means that we insert the needle next to the hair follicle.



9A. Impulse application with automation enabled.

AUTOMATION YES

MODE HAIR INTENSITY CURRENT

To start the treatment-impulse, it is sufficient to insert the needle into the hair follicle. The impulse will be applied after the set delay time. If we set the delay time, e.g. to 1.0s, the impulse will be applied 1 second after the needle is inserted into the hair follicle. The expiry of the applied impulse is communicated after a short sound signal. No signal means that no impulse was applied.

This can be caused, e.g. by an unfastened passive electrode (band) or lack of contact between the handle and the apparatus. Also check whether the sound is enabled (see page 28)

Delay 1.0 s

MODE HAIR INTENSITY CURRENT

The completion of the hair removal is signalled with a short sound signal (provided that the sound signal is enabled - see page 28), too early needle extraction or loss of band contact is signalled with a long sound signal.

In time, it is possible to set a shorter automation delay.

After commencing operation, the screen will display the selected parameters, e.g.

EL	thin	- 0.95
MODE	HAIR	INTENSITY CURRENT

During the [BLEND] treatment, it is possible to change the current power rate. Prior to changing parameters, it is necessary to disconnect the patient circuit – extract the needle from the hair follicle.

The number of operations can be displayed by pressing the foot switch.. Treatment duration of 2:34 seconds on the left and 20 impulses on the right.

0 : 02 : 34	020		
MODE	HAIR	INTENSITY	CURRENT

To finish the treatment, press the O/P knob for a long time. The screen will display the following:

TREATMENT	FINISHED		
MODE	HAIR	INTENSITY	CURRENT



Setting the treatment type - long press of the O/P knob.

9B. Impulse application with automation disabled.

AUTOMATION NO			
MODE	HAIR	INTENSITY	CURRENT

To start the treatment-impulse, press the foot switch. The completion of the hair removal is signalled with a short sound signal (provided

that the sound signal is enabled - see page 28), too early needle extraction or loss of band contact is signalled with a long sound signal.

After hearing a short sound, gently extract the needle from the hair follicle. Repeat the operation with the next hair follicle.

No signal means that no impulse was applied.

This can be caused, e.g. by an unfastened passive electrode (band) or lack of contact between the handle and the apparatus. The screen will display the following inscription:

check cables			
MODE	HAIR	INTENSITY	CURRENT

After commencing operation, the screen will display the selected parameters, e.g.

EL	thin		- 0.95
MODE	HAIR	INTENSITY	CURRENT

During the [BLEND] treatment, it is possible to change the current power rate. Prior to changing parameters, it is necessary to disconnect the patient circuit – extract the needle from the hair follicle.

The number of operations can be displayed by pressing the foot switch. Hold the foot switch for a long time. The screen will display the following inscription:

check cables, and then the counter screen will be displayed. Treatment duration of 2:34 seconds on the left and 20 impulses on the right.

Press and hold the foot switch.

check cables			
MODE	HAIR	INTENSITY	CURRENT
0 : 02 : 34			
MODE	HAIR	INTENSITY	CURRENT
020			
MODE	HAIR	INTENSITY	CURRENT

To finish the treatment, press the O/P knob for a long time. The screen will display the following:

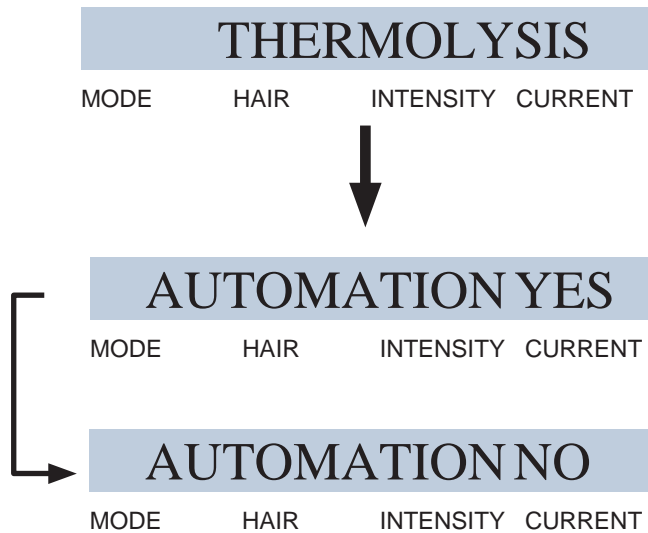
TREATMENT FINISHED
MODE HAIR INTENSITY CURRENT



Setting the treatment type - long press of the O/P knob.

APPARATUS SETTINGS DURING THE THERMOLYSIS TREATMENT

1. After selecting the THERMOLYSIS treatment, the screen will display the following inscription:



acceptance -
press (O/P)



selection
rotate

acceptance -
press (O/P)



2. The apparatus includes a function (Automation) allowing conducting treatment without using the foot switch and setting the time after which the current will flow automatically after the needle is inserted into the hair follicle.



3. Confirming the function will display the delay time, which can be changed from 0.5s to 2.0s. Confirm the selection by quickly pressing (O/P).



It is possible to adjust the delay time by rotating the (O/P) knob.

Accept by quickly pressing the (O/P) knob.



4. **MODE** is the selected treatment TE- THERMOLYSIS



5. **HAIR** is the hair thickness size.



selection -
rotate (O/P)

acceptance -
press (O/P)



silk
thin
norm
med
thick

silky
thin
normal
medium
thick

6. **INTENSITY** - displayed in percentage of 13.5Mhz high frequency current power. It is possible to remove the hair by using high current power (80-100% power) - the apparatus will automatically set the short time. If we select lower power, the apparatus will set a longer operation time.



value adjustment -
rotate (O/P)

acceptance -
press (O/P)



THERMOLYSIS - high frequency current flow time			
hair thickness operation time	INTENSITY - percentage		
	40%	65%	100%
silky	1.3 s	0.3 s	0.05 s
thin	2.5 s	0.7 s	0.1 s
normal	3.6 s	1.0 s	0.2 s
medium	5.2 s	1.5 s	0.3 s
thick	6.7 s	2.2 s	0.5 s

7. STARTING THE TREATMENT

Take off metallic elements, e.g. jewellery. Clean and disinfect the treated area. Select the correct needle for the treatment.

Ballet needle, more convenient for closing blood vessels due to its sharp tip.
Uniprobe needle, more suitable for removing hair to its blunt tip.

Select the correct needle based on the size of blood vessel / hair thickness. The larger the blood vessel / hair, the thicker needle can be used.

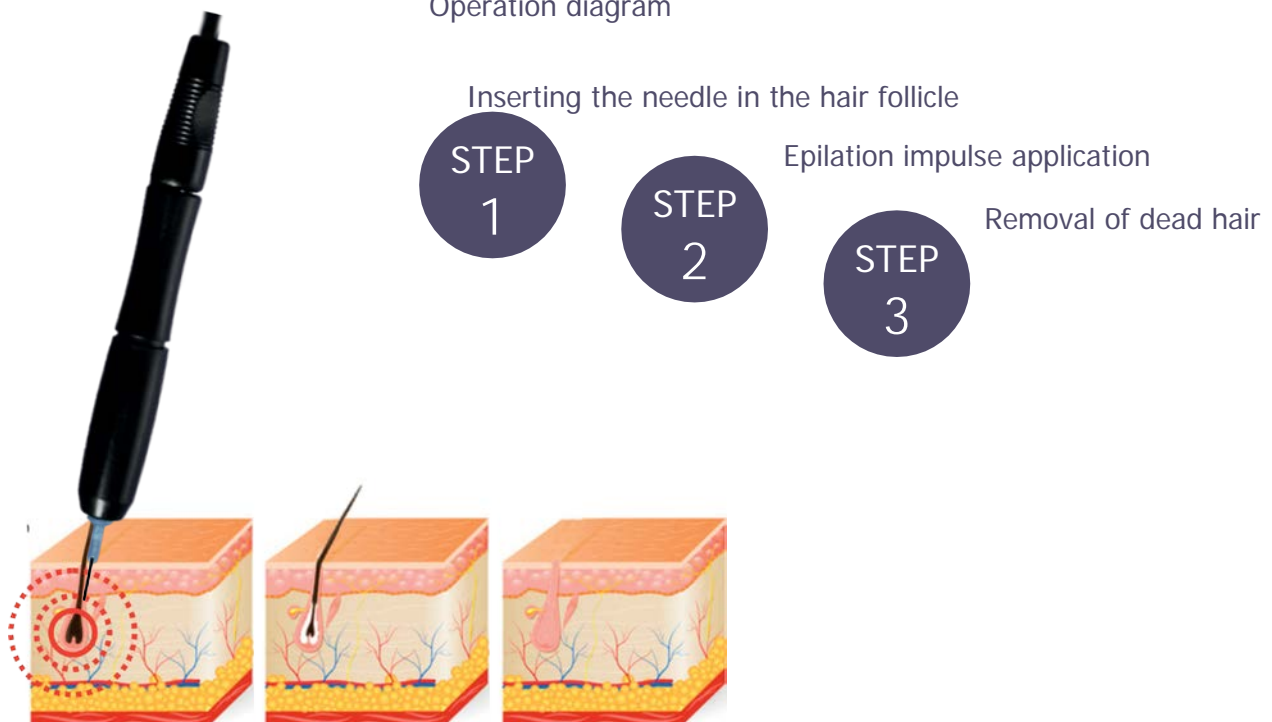
To properly recognise the settings and prevent unpleasant sensation of the client, start with medium values, e.g.:

TE norm 90			
MODE	HAIR	INTENSITY	CURRENT

8. Inserting the needle into the hair follicle.

Insert the needle into the hair follicle at the hair outgrow angle, on the hair underside at best. If the needle is correctly inserted into the follicle, it does not cause pain, stinging or other unpleasant sensations. It must be inserted until slight resistance is felt, which will mean that we reached the hair root, then we apply the impulse / current. If the needle insertion causes pain or stinging, it means that we insert the needle next to the hair follicle.

Operation diagram



9A. Impulse application with automation enabled.

AUTOMATION YES

MODE HAIR INTENSITY CURRENT

To start the treatment-impulse, it is sufficient to insert the needle into the hair follicle. The impulse will be applied after the set delay time. If we set the delay time, e.g. to 1.0s, the impulse will be applied 1 second after the needle is inserted into the hair follicle. The expiry of the applied impulse is communicated after a short sound signal. No signal means that no impulse was applied.

This can be caused, e.g. by an unfastened passive electrode (band) or lack of contact between the handle and the apparatus. Also check whether the sound is enabled (see page 28)

Delay 1.0 s

MODE HAIR INTENSITY CURRENT

The completion of the hair removal is signalled with a short sound signal (provided that the sound signal is enabled - see page 28), too early needle extraction or loss of band contact is signalled with a long sound signal.

In time, it is possible to set a shorter automation delay.

After commencing operation, the screen will display the selected parameters, e.g.

TE norm 90

MODE HAIR INTENSITY CURRENT

During the [BLEND] treatment, it is possible to change the current power rate. Prior to changing parameters, it is necessary to disconnect the patient circuit – extract the needle from the hair follicle.

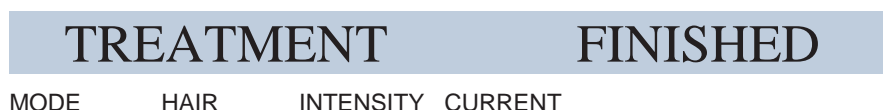
The number of operations can be displayed by pressing the foot switch. Treatment duration of 2:34 seconds on the left and 20 impulses on the right.

0 : 02 : 34 020

MODE HAIR INTENSITY CURRENT

To finish the treatment, press the O/P knob for a long time.

The screen will display the following:



Setting the treatment type - long press of the O/P knob.

9B. Impulse application with automation disabled.



To start the treatment-impulse, press the foot switch. The completion of the hair removal is signalled with a short sound signal (provided that the sound signal is enabled - see page 28), too early needle extraction or loss of band contact is signalled with a long sound signal.

After hearing a short sound, gently extract the needle from the hair follicle. Repeat the operation with the next hair follicle.

No signal means that no impulse was applied.

This can be caused, e.g. by an unfastened passive electrode (band) or lack of contact between the handle and the apparatus. The screen will display the following inscription:



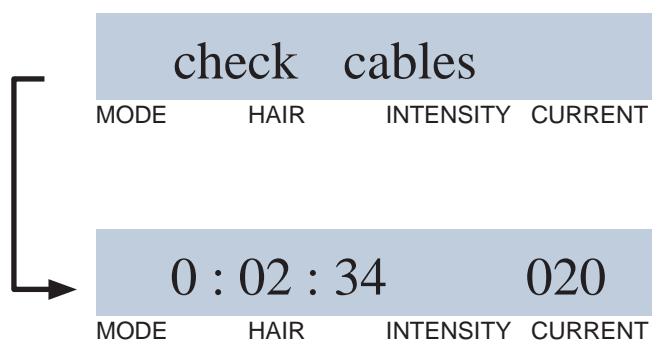
After commencing operation, the screen will display the selected parameters, e.g.



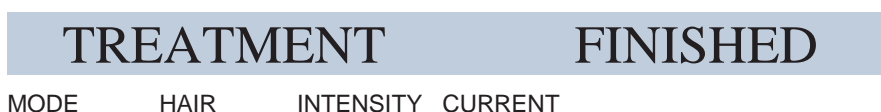
During the [BLEND] treatment, it is possible to change the current power rate. Prior to changing parameters, it is necessary to disconnect the patient circuit – extract the needle from the hair follicle.

The number of operations can be displayed by pressing the foot switch. Hold the foot switch for a long time. The screen will display the following inscription: check cables, and then the counter screen will be displayed. Treatment duration of 2:34 seconds on the left and 20 impulses on the right.

Press and hold the foot switch.



To finish the treatment, press the O/P knob for a long time. The screen will display the following:



Setting the treatment type - long press of the O/P knob.

DISABLING - ENABLING THE SOUND

When in the treatment position:

example with the BLEND treatment selected. With any other program, proceed in the same manner.

BL norm 85 - 0.95
MODE HAIR INTENSITY CURRENT



BLEND
MODE HAIR INTENSITY CURRENT

exit the treatment by pressing the PRESS knob for a long time



Then press the PRESS knob again for a long time.

The screen will display the following inscription:

SOUND ENA sound enabled
MODE HAIR INTENSITY CURRENT

OR

SOUND DIS sound disabled
MODE HAIR INTENSITY CURRENT

Use the OPERATION knob to select the required option (sound enabled or disabled).

Confirm the selection by quickly pressing the PRESS knob.



CHANGING THE MENU LANGUAGE

When in the treatment position:

example with the BLEND treatment selected. With any other program, proceed in the same manner.

BL norm 85 - 0.95
MODE HAIR INTENSITY CURRENT



BLEND
MODE HAIR INTENSITY CURRENT

exit the treatment by pressing the PRESS knob for a long time



Then press the PRESS knob again for a long time.

The screen will display the following inscription:

SOUND ENA
MODE HAIR INTENSITY CURRENT

sound enabled

OR

SOUND DIS
MODE HAIR INTENSITY CURRENT

sound disabled

Use the OPERATION knob to select the required option (sound enabled or disabled).

Confirm the selection by quickly pressing the PRESS knob.



The screen will display the currently selected language:

Polish English Deutsch русский

Select the required language by using the OPERATION knob.

Confirm the selection by quickly pressing the PRESS knob twice.



CONTRAINDICATIONS

Contraindications for the treatment include pregnancy, artificial heart valve and artificial pacemaker.

PRECAUTIONS DURING TREATMENT

- To prevent skin damage, it is necessary to:
- Adjust the current flow intensity and time to individual client sensations
- Insert the needle very gently to avoid superficial skin burns
- Avoid exposure of the treated area to sunlight for 24 hours after its completion
- Immediately after the treatment expect skin irritation, small needle marks, swelling of the more sensitive areas of the face

AFTER TREATMENT, AVOID THE FOLLOWING:

- skin exposure to strong sunlight - sunbathing
- lubrication of the treated area with any ointments/creams
- peeling of the treated area
- tight clothing, including tights and oppressive socks in the treated area
- hot baths, especially after vascular closure
- conducting the treatment during extensive heat and cold.

REMARKS CONCERNING SAFE USE

- Insert the power supply plug into a socket with an earthing rod.
- If the apparatus was subjected to a strong impact, e.g. fall, blow, it should be returned to the manufacturer for inspection.
- If the power supply cable is damaged, it is necessary to replace it for a new one of the same type in a service facility.
- It is prohibited to execute independent switch-overs or changes in the system.
- The warranty will expire if the apparatus is opened or the seal is destroyed, and the manufacturer takes no responsibility for the correct and safe operation of the device.



BIOMAK

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